

On the Accuracy of Data Obtained by Vickers
Hardness Tests at Varying Test Conditions, by
A. von den Steinen, W. Schmidt, 31 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol XXXI, No 1, 1960, pp 25-32.

SLA 60-18906

Sci

Apr 61

146,116

Studies of the Quench-Ageing of Mild Steels
From Various Methods of Production, by M.
Nacken, W. Heller.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXI,
Jan 1960, pp 39-46.

BISI 2053

Sci - Min/Met

Jun 61

156,863

Reactions Between Magnesium Oxide and Iron Melts
Under Reduced Pressure, by K. Brotsmann.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol. XXX, 1960, pp 67-81.
XXXI,

BISI 2916

Sci - M/M
Feb 63

322,528

Plöger, Ulrich.
DETERMINATION OF SURFACE TEMPERATURES BY
MEANS OF INFRARED PHOTOGRAPHS (Ermittlung von
Oberflächentemperaturen mit Infrarotaufnahmen). [1961]
[16]p. (foreign text included) 1 ref.
Order from SLA \$1.60

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1960, v. 31, no. 2, p. 87-90.

DESCRIPTORS: *Open hearth furnaces, Roofs, Surface
temperatures, Determination, *Infrared photography.

The manner in which the method of infrared photographs
can be usefully applied under operating conditions is
described by means of the example of the determination
of the temperature field in the roofs of Siemens-Martin
furnaces. It permits the determination even of extensive
temperature fields by a single operation and allows de-
ductions with respect to the wear of furnaces. (Author)
(Metallurgy, TT, v. 6, no. 6)

61-10546
65-18426
1. Plöger, U.

61-10546
63-11426 (9pp)

176506

Office of Technical Services

Rapid Analysis of Ores and Related Materials, by
A. Neuberger, E. Schoffmann, K. Herkendorff.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXI,
No 2, 1960, pp 91-96.

HB 4801

Sci - Min/Met

Oct 60

Potentiostatic Isolation of Structural
Components in Nickel Alloys, by C. Iischer-
Gensach. UNCL

UNCL, per, Arch Eisenhüttenwesen,
No 2, 1960, pp 97-102.

SWA 65-16805
NIAI 1706

(LS 4.50.04.)

118,443

Sci - NIA/Mat
Jun 60

Study of the Strain-Ageing of Mild Steel and of
High-Purity Iron by Age-Hardening and Reversal
Tests, by M. Nacken, W. Heller.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXI
Feb 1960, pp 103-111.

BISI 2054

Sci - Min/Mat

Jan 61

156,892

The Effect of Heating Conditions and Alloy
Composition on the Internal Oxidation of Iron
Alloys, by H. Schenck, E. Schmidtman, H. Muller.

GERMAN, per, Archiv fuer Eisenhuttungsessen, Vol XXXI,
Feb 1960, pp 121-128.

NDI 2675

sci - min/metals

SLA 63-14886

196,168

May 62

list 133

Sci
Jun

The Influence of the Mode of Combination of an
Element on Its Determination by Emissive Spectro-
graphic Analysis, by P. Dickens, A. Behr.

GERMAN, per, Archiv Elektrotechnik, Vol XXII,
Mar 1960, pp 135-143.

BISI 1806

Sci - Chem

May 61

150,847

The Change in Coercivity During Ageing of Unalloyed
Mild Steels, by M. Macken, W. Heller.

GERMAN, per, Archiv Eisenhüttenwesen, Mar 1960,
pp 153-160.

BISI 1990

Sci - Min/Met

Feb 61

139,584

Investigations into the Recrystallization of a
Ferritic 27% Cr Steel, by H. Borchers,

GERMAN, per, Arch, Eisenhuett, ⁱⁿ Vol XXXI, Mar 1960,
pp 177-182, ^{transl.}

*BISI 1836

Sci - *China; Min/ma*

Jun 61

Electrochemical Measurements of the
Passivity of a Steel With 18% CR and
8% Ni, by Alfred Rahmel, Wilhelm Schwenk.

GERMAN, per, Archiv fuer das Eisenhüttenwesen,
Vol XXXI, No 3, 1960, pp 189-193.

*FTD-TT-62-1783

Sci - Min/Met
Dec 1962

Petrographic Factors Affecting the Reducibility
of Iron Oxide: An Attempt at Parallelization, by
H. Schenck, A. Konigs.

GERMAN, per, Archiv Eisenhüttenwesen, Apr 1960,
pp 201-213.

BISI 1817

Sci - Min/Met

Dec 60

134, 383

Investigations on the Activity of Carbon in
Crystallized Binary and Ternary Iron-Carbon
Alloys, by H. Schenck, H. Kaiser.

GERMAN, per, Archiv Eisenhüttenwesen, Apr 1960,
pp 227-235.

CB/41/1779
BISI 1779

Sci - Chem

Sep 60

124,963

Investigations Into the Recrystallization of an
Austenitic Chromium-Nickel Steel With Special
Stress on Prolonged Heating, by H. Borchers.

GERMAN, per, Arch Eisenhüttenwesen, No 4, 1960,
pp 237-242.

BISI 1768

Oct - M/M

Oct 60

129,134

Oxide Inclusions in Iron-Chromium-Oxygen Melts,
by W. Koch, et al.

GERMAN, per, Archiv Eisenhüttenwesen, May 1960,
pp 279-286.

BISI 1780

Sci - Chem

Sep 60

127,201

Influence of Carbon Content and Experimental
Temperature on the Work Hardening and Specific
Electrical Resistance of Ferritic and Austenitic
Steels During Cold Deformation, by E. Schmidtman,
et al.

GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXI, May 1960, pp 299-308.

BISI 2335

171, 398

Sci - Min/Metals

Oct 61

Study of the Diffusion Between Iron-Zinc Coatings on
Iron Base Materials, by H. Bablik.
GERMAN, per, Arch Eisenhüttenw, Vol 31, 1960, pp 331-336.
*NTIS/NBS IT 71-53103
Available NBS Only

June 71

Theory of the Course of Pressure in Extended
Industrial Furnaces, by M. Hansen.

GERMAN, per, Archiv Eisenhüttenwesen, Jun 1960,
pp 337-342.

BISI 1932

Sci - Engr

Dec 60

134,007

Determination of Hydrogen in Steel by the Carrier-Gas Method, by K. Abresch, W. Dobner, H. Lamm.

GERMAN, per, Archiv fuer das Eisenhuettenwesen, Vol XXXI, No 6, 1960, pp 351-354.

HB 4887

AEC^{Te}-5284 9066980

145,054

Sci - Chem

Mar 61

Effect of pH Value of Electrolyte Upon Quantity
and Composition of Oxide Inclusions Extracted
From Fully Killed Basic Bessemer Steels, by E.
Piper, H. Hagedorn, M. Frohlich.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XXXI, No 6, 1960, pp 377-378.

HB 1888

Sci - Chem

145,050

Feb 61

Electrolytic Etching of Multi-Phase Iron-
Chromium-Nickel Alloys in Caustic Soda, by
H. Luderling.

EUROPEAN, per, Archiv fur das Eisenhüttenwesen,
Vol 31, June 1960, pp 385-391.
BISI Trans 2181

SLA-61-22724

Jan 72

The Attack of Iron-Saturated Zinc Melts Upon
Chromium- and Nickel-Containing Iron, by D.
Horstmann.

GERMAN, per, Archiv Eisenhüttenwesen, Jul 1960,
pp 405-410.

BISI 1905

Sci - Chem

Dec 60

134,171

Influence of Carbon and Oxygen on the Behaviour
of Some Accompanying Elements in Iron Melts
Under High Vacuum, by W. A. Fischer, A.
Hoffmann.

GERMAN, per, Archiv Eisenhüttenwesen, Jul
1960, pp 411-417.

BIMI 1906

Sci - Chem

135,672

Jan 61

Examination of Special Forms of Titanium- and
Sulphur-Containing Inclusions in Pig Iron Melts
With High Carbon Contents, by C. Frick
GERMAN, per, Arch. Eisenh., Vol 31, Jul 1960,
pp 419-422
BISI 5571

Weur
C. A. A.

341730

A Method of Investigation Mechanical Damping
Over a Wide Temperature Range, by H. Siel, R.
Mandler.

GERMAN, per, Archiv Eisenhüttenwesen, Jul 1960,
pp 423-426.

BISI 1907

Sci - Engr

Dec 60

134,172

Tensile Tests at $+20$ to -180°C on Ductile and
Embrittled Specimens of Chromium-Nickel Steel,
by A. Feiter, G. Altmeyer.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXI, Jul 1960, pp 427-432.

BISI 2366

Sci - Phys

175,878

Dec 61

Investigation of Iron Ores by Means of Differential
Thermo-Analysis, by H. Schenck, et al.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXI,
Aug 1960, pp 451-458.

NIISI 1979

Sci - Min/Met

May 61

150,848

Cutting Steel Plates and Strip With Rotary Shears,
by H. J. Crasemann.

GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXI,
Aug 1960, pp 459-470.

BISI 2171

Sci - Engr

176, 447

Dec 61

Equilibrium of Sulphur Reaction Between Liquid,
Carbon-Saturated Iron and Lime-Silica-Alumina
Slage, by H. Schenck, et al.

GERMAN, per, Archiv Eisenhüttenwesen, Aug 1960,
pp 471, 472.

BISI 1893

Sci - Min/Met

Oct 60

130,694

The Compression of Fracture of Tensile Test
Pieces, by A. Krisch.

GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXI, Aug 1960, pp 491-496.

BISI 3491

Sci - Engr
Jan 64

246,143

Dispositifi Pour la Comparaison des Figures
de Diffraction Electronique Entre Elles et
Avec Les Cliches Debye-Scherrer, by H. Kudielka,
H. Rode, 8 pp.

GERMAN to FRENCH, per, ~~Arch Eisenhutten~~,
Vol XXXI, No 8, 1960, pp 503-507. 9068267

CEA A-1191
Reverse Translation

Sci
Nov 62

Uniform Presentation of Results of Impact Tests
on Rails of Varying Section: Conclusions on
Standard Requirements, by W. Janiche, W. Wink.

GERMAN, per, Archiv Eisenbahntechnik, Sep 1960,
pp 521-530.

- RISI 1950

Sci - Engr

Mar 61

141,352

Nucleus Formation and Particle Growth During
the Precipitation of Mixed Crystals, by
O. Krisement.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIII?
No 9, 1960, pp 537-548.

OSGB 2212

Sci
Min/Met
Jan 63

220,875

Effect of Aluminum Nitride on the Analysis
Results From Oxide Inclusions in Fully
Killed Basic Bessemer Steels, by E. Piper,
H. Hagedorn, M. Frohlich.

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXXI,
No 10, 1960, pp 577-582.

HD 5033

Sci - Chem
Oct 61

171,864

Occurrence of Aluminum Nitride in Fully
Killed Basic Bessemer Steel, by
E. Zimmermann.

GERMAN, per, Archiv Eisenhütten, Vol XXXI,
No 10, 1960, pp 587-594.

HB 5034

Sci - Chem
Dec 61

175, 018

The Use of Polarization Potential Titration in
the Iron and Steelworks Laboratory, by E. Abresch,
E. Buchel.

German

RUSSIAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXI, No 10, 1960, pp 595-601, 603-606.

BISI 2471

Sci - Min/Metals

204,862

Jul 62

list 130

Gases in Ferroalloys, by R. Limpach, B. Marincek.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXI,
No 11, 1960, pp 639-643.

ED 5076

Sci

Sep 61

170.127

Fuchs, A. and Niebuhr, J.
GAS CONTENTS AND FORM OF GAS COMPOUNDS
IN FERROALLOYS. Sep 61. 2900 words.
Order from HB \$8. 70 HB-5077

Trans. of Archiv [fur das] Eisenhüttenwesen (West
Germany) 1960, v. 31, no. 11, p. 645-648.

DESCRIPTORS: *Iron alloys, Metals, *Gases, De-
termination, Fused materials, Oxygen, Hydrogen,
Alloys, Nitrogen compounds, Iron compounds, Chro-
mium, Silicon, Oxides, Inclusions

(Metallurgy, TT. v. 6, no. 12)

61-25582

- I. Fuchs, A.
- II. Niebuhr, J.
- III. HB-5077
- IV. Brucher, Henry,
Altadena, Calif.

18200

Office of Technical Services

Kinetics of Indirect Reduction, by H. Schenck,
H. P. Schulz.

GERMAN, per, Archiv fuer Eisenhuttenwesen,
Vol XXXI, Dec 1960, pp 691-702.

ISI 2635

Sci - Engr

Dec 62

list 158

211,311

Investigation of the Completeness of Estimation
of Sulphur Content on Works Products, Using
Various Combustion Processes, by D. Blazejak-
Ditges.

GERMAN, per, Archiv fuer Eisenhuttenwesen,
Vol XXXI, No 12, 1960, pp 717-722.

BISI 2683

Sci - Chem

196, 209

May 62

list 132

Heider, Wilhelm and Necken, Matthias.
STUDY OF DEFORMATION AGING SO SOFT UNAL-
LOYED STEEL DURING TENSILE AND DAMPING
TESTING. [1961] [18]p. (16 figs. [tables] refs.
omitted)

Order from SLA m\$2.40, ph\$3.30 61-10864

Trans. of Archiv für das Eisenhüttenwesen (West
Germany). 1960, v. 31, no. 12, p. 723-731

The course of aging of basic bessemer, converter
alloy and electric steels with a dissolved carbon con-
tent of up to 0.019% at different temperatures was in-
vestigated by tensile testing, and by damping and co-
ercive force determinations. Studies of aged speci-
mens were supplemented by recovery investigations
and the results were compared with those of quench
aging. The changes of strength characteristics and of
coercive force, as a function of the aging time and of
aging temperature, are characteristic of quench aging.
These changes suggest that carbide formation during
(Metallurgy--Ferrous Metals, TT, v. 5, no. 11) (over)

I. Steel--Aging
1. Heller, W.
II. Nacken, M.

158975

Office of Technical Services

X Cause and Establishment of the Anomalous
Structure in Steels, by J. H. J. Wiester, R.
Pusch, M. Hoffmann, 11 pp.

GERMAN, per, Archiv fuer der Eisenhüttenw,
Vol XXXI, No 12, 1960, pp 743-745. 9079914

ABC 71r-4637

164, 904

Sci
Aug 61

Determination of the Diffusion Coefficients in
the Fe-Cr Alloys, by Th. Neumann.

GERMAN, per, Arch Eisenh. No 31, 1960, pp 749-
754.

*NBS TT 70-57417

Sci-Mat

Aug 70

TRAUCHESI, J. and others. Use of hyaluronidase in new
myocardial infarction electrocardiographic study.
Archos bras. Cardiol. (13):1-6 (1960) (INSDOC/T. 107)

The Distribution of Manganese Between
Iron Melts and Iron (II)-Oxide Slags
in the MnO Crucible at 1520 to 1770°C,
by W. A. Fischer, H. J. Fleischer.
GERMAN, per, Arch. Eisenh, Vol. 32, Jan.
1961, pp 1-10.
BISI 4627

Sci-Materials
Sept 66

310,358

Investigations on the Spectrographic Analysis of
High-Alloy Steels, by W. Diehl. 33 p.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXII,
No 1, 1961, pp 11-18. 9209204

HB 5118

AEC-TR-5788

164,326

Sci - Min/Metals

Aug 61

Neutron-Activation Analysis in Steel Industry,
by W. Reiser, H. Schneider.

GERMAN, per, Archiv fuer Eisenhuttenwesen,
Vol XXXII, No 1, 1961, pp 31-38.

HB 5409

Sci - Phys

Jul 62

Wear of Chrome-Magnesite Bricks in Open-Hearth
Furnace Roofs, by S. Kienow.

GERMAN, par, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Feb 1961, pp 77-87.

MMI 2309

Sci - Engr

Sep 61

168, 452

list 110

DAMAGE TO TENSION WIRES BY HYDROGEN
ABSORPTION IN ALUMINOUS CEMENT CONCRETE, BY
F. K. NAUMANN, A. BAUMEL.

GERMAN, PER, ARCHIV FÜR EISENHÜTTENWESEN,
VOL XXXII, FEB 1961, PP 89-94.

BISI 2325

SCI - ENGR

NOV 61

172,257

Properties of Rustless Austenitic Chromium-Nickel
Steels Containing Boron for Nuclear Reactor
Construction, by K. Bungardt, R. Oppenheim,

GERMAN, per, Archiv fuer Eisenhuttewesen,
Vol XXXII, Feb 1961, pp 95-101.

ISI 2305

Sci - Chem

Sep 61

List 108

168, 476

The Thermodynamics of Fe-C-Cu, Fe-C-Sm, Fe-C-Sb
Systems, by H. Schenck.
GERMAN, per, Arch Eisenhüttenw., Vol 32, 1961, pp 123-127.
*NTIS/NBS TT 71-53102
Available NBS Only

June 71

Spectrochemical Analysis of Stainless Steel
Samples, Using the Quantometer, by H. de Laffolie.
GERMAN, per, Archiv fur de Eisenhüttenwesen,
Vol 32, No 3, 1961, pp 145-152,
HB 6910

CRL/T. 115-3

Sci/Materials
Dec 66

314,342

The Effect of Copper on the Corrosion Behaviour and
Mechanical Properties of Austenitic Chrome-Nickel
Steels, by T. Ramchandran, et al.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Mar 1961, pp 173-185.

KISI #190

Sci - Chem

168, 469

Sup 61

List 108

Determination of Equilibria Between Co-Co₂
Mixtures and γ -Mixed Crystal, Cementite and
Graphite, by E. Scheil, T. Schmitt, J. Wunning.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Apr 1961, pp 251-260.

REF 2505

Sci - Chem

Mar 62

List 126

189,080
(Reverse Translation
German to French)
CEA-A-1287
#920 7187

Sintering, Degassing, and Reduction, Part IA of the
Kinetics of Iron and Steelmaking Reactions, by
L. von Bogdandy.

GERMAN, par, Archiv Eisenhüttenwesen, Vol. XXXII,
No 5, 1961, pp 275-280.

MB 5333

ATS-TEN 56G

Sci-Min/Met
Jan 63

(PP 275-296) C.H.L./T. 11/25 19,988

Vaporization and Refining, by
L. von Bogdandy.
GERMAN, per, Archiv Eisenhüttenwesen,
Vol 32, No 5, May 1961, pp 287-292.
HB 5334

EE-Ger
Sci/MEM
Jun 65

282,387

On the Kinetics of Iron-and Steelmaking Reactions, by
L. von Bogdandy, Part II

GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXII,
N 5, 1961, pp 287-296.

Sci - Chem

3 Nov 61

*HB 5334

Part I B (H 272-273) HV 5748

ATS-06N576

EQUILIBRIUM INVESTIGATIONS ON MAGNESIO-
WUSTITES AND MAGNESIO-FeRRITES, BY N. G.
SCHNAHL, ET AL.

GERMAN, PER ARCHIV FÜR EISENHÜTTENWESEN,
VOL XXXII, MAY 1961, PP 297-302.

BISI 2411.

SCI - CHEM

NOV 61

172,271

A Simple Method of Obtaining the Flow Curves of
Steel at Room Temperature, by M. Reihle.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXII, May 1961, pp 331-336.

MSI 2633

Sci - min/metals

also CK/T 895
204,784

Jul 62

list 138

Convected Heat Transfer to Checker Brickwork in the
Light of the Theory of Similarity, by R. Jeschar,
C. O. Pels Leusden.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Jun 1961, pp 361-368.

BISI 2447

Sci - Engr

186,919

Mar 62

list 120

OPERATIONAL EXPERIENCE WITH A NEW VACUUM
SPECTROMETER. OPERATING DIFFICULTIES WITH
A VACUUM SPECTROMETER, BY P. DICKENS, E.
PIPER, H. KERN, ET AL.

GERMAN, PER, ARCHIV FUER EISENHUTTENWESEN,
VOL XXXII, NO 6, 1961, PP 369-373, 376-377.

BISI 2469

SCI - ENGR
3 NOV 61

173,177

Stress-Corrosion Cracking of Soft Iron in
Calcium Nitrate Solutions, by A. Bauwiel,
H. J. Engell.

GERMANY, per, Archiv für Eisenhüttenwesen,
Vol XXXII, No 6, 1961, pp 379-386.

CRIB 2561

Sci - M/M
Aug 63

341,371

The Investigation of Pitting Corrosion in Chemically
Resistant Austenitic Steels, by E. Dearn, W. Schenk.

GERMAN, per, Archiv für Eisenhüttenwesen, Vol XXII,
No 6, 1961, pp 387-396.

CSAB 2563

Sci - M/M
Aug 63

341, 374

Pressure & Sintering of Hafnium, Zirconium
and Tantalum Carbides Without Binder, by
B. Lersmacher, S. Scholz.

GERMAN, per, Archiv Eisenhüttenwesen,
Vol XXII, No 6, 1961, pp 421-429.

II

Sci - Chem
May 62

HB 5246

SLA 62-14442

196,322

Contribution to the Decaridation Kinetics
of Liquid Iron, by L. von Bogdandy,
W. Meyer, I. H. Stranski.

GERMAN, per, Archiv Eisenhüttenwesen,
Vol. XXXII, No 7, 1961, pp 451-460.

HB 5335

Sci - Chem, Phys
Jan 62

199, 411

Electron Microscope Examination of Aluminum
Nitride in Structural Steels Melted on a
Production Scale, by W. Dahl, et al.

GERMAN, per, Archiv fuer Eisenhuettenwesen.
Vol XXXII, No 7, 1961, pp 475-482.

BISI 2427

Sci - Min/Metals

176,469

Dec 61

Iron Nitride Inclusions in Ferrite, by W. Pitsch.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXII, No 8, 1961, pp 493-500, 573.

BISI 2450

pp 493-500 - BISI 2141

Sci - Chem

Jan 62

180.709

Stresses in Deformation Zone in Drawing of Bars
Under Plane Strain Conditions, by O. Pawelski.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII
Aug 1961, pp 513-520.

NDI 2499

Sci - Phys

Mar 62

list 124

188, 953

The Exchange Effect of Al, V and N in Aluminium-
Filled Weldable Structural Steels Alloyed With V and
and Containing About 0.2% C and 1.5% Mn, by
K. Konig, W. Scholz, and H. Ulmer.

BERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Aug 1961, pp 541-556.

BISI 2501

Sci - Min/Metals

183,494

Mar 62

1st 122

62-34395

Frohberg, M. G.
THE APPLICATION OF THE ION THEORY TO
METALLURGICAL SLAGS WITH SPECIAL
REFERENCE TO THE OXYGEN AND SULPHUR
DISTRIBUTION, tr. by D. A. Sinclair. 1962, 34p.
49 refs. NRCC Technical Trans. 1037.
Order from NRCC \$2.00 NRCC C-4057

Trans. of Arch[iv für das Eisenhüttenw[esen]
(West Germany) 1961, v. 32, no. 9, p. 597-606.

DESCRIPTORS: *Slags, Dissociation, Oxygen,
Sulfur, Distribution, *Liquid metals, *Iron, Calcium
compounds, Oxides, Dioxides, Silicon compounds,
Electrolytes (Physiology), *Ion exchange, Exchange
reactions, Metallurgical analysis, Ions, Theory,
*Electrochemistry, Mathematical analysis.

(Metallurgy. TT, v. 8, no. 10)

- I. Frohberg, M. G.
- II. NRCC TT-1037
- III. NRCC C-4057
- IV. National Research Council
of Canada

Office of Technical Services

Investigation Into the Structure of Corrugated Rails,
by F. K. Naumann.

GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXII,
Sep 1961, pp 617.

*BISI E 2533

Sci - Engr

11 Dec 61

list B 66

Improvements of the End Quench Test and Its
Applicability in Very Accurate Investigations,
by H. Borchers, H. Schligh,

~~RESEARCH~~

GERMAN, per, Archiv Eisenhüttenw., Vol XXXII,
No 9, 1961, pp 637-643.

CRL/T.927

* 13151 2999

Sci
Dec 62

The Solubility and Diffusion of Hydrogen in
Steel, by G. Vlahans.

GERMAN, par, Archiv fuer Eisenhuettenwesen,
Vol XXIII, 1961, pp 667-673.

No 10

BIISI 2598
NZDIA

Sci - Chem
Feb 63

~~224, 253~~

State of Stress and Multiaxial Indices in
Notched Tensile and Bend Test Pieces With
Elastic Stressing, by A. Kochendörfer,
A. Schurenkammer.
GERMAN, per, Arch. Eisenh., Vol 32, Oct 1961,
pp 681-687.
BISI 4314

GB 41/1314-130 s.

Sci/H&M
Dec 65

293,156

Stress State and Structure of Flow
Zones in Notched Tensile and Bend
Specimens and Their Influence on the
Strength and Deformation Characteristics
of the Material, by A. Kochendorfer,
A. Schurenkamper.
GERMAN, per, Arch. Eisenh. Vol 32,
Oct 1961, pp 689-699.
BISI 4313

Sci/MEM
Nov 65

292,046

The Calorimetry and Thermodynamics of Fe-Cu Alloys,
by W. Oelsen.

GERMAN, per, Arch Eisenhüttenw., Vol 32, 1961,
pp 719-728.

*NTIS/NBS TT 71-55190
Available NBS Only

June 71

Simple Method of Isolation of Thin Nonmetallic
Coatings, by G. Konig.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXII,
No 10, 1961, pp # 729-731.

HB 5412

Sci - Min/Met
May 62

196, 287

Investigations of the Distillation of Metallic
Elements From Liquid Iron Under Reduced Pressure,
by H. Schenck, H. H. Domalski.

GERMAN, par, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Nov 1961, pp 753-760.

BIBI 2597

Sci - Chem

204, 673

Jul 62

list 140

The Equilibrium Solubility of Hydrogen in Pure
Liquid Nickel and Iron, and the Influence of
Oxygen in the Iron, by E. Schenk, H. Wunsch.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXII, Nov 1961, pp 779-790.

ISI 2668

Sci - M/m

Jan 63

219.275

list 159

A Contribution to the Thermodynamics of the
Dephosphorization Reaction Under Phosphate Slags
Containing Lime, by H. Knuppel, F. Oeters.

GERMAN, par, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Dec 1961, pp 799-808.

BISI 2660

Sci - Chem

216, 981

Nov 62

Indication of the Quality Characteristics of Low
Carbon Steels by Damping Measurements, by W. Koster,
G. Kampschulte.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Dec 1961, pp 809-822..

BISI 2685

Sci - Min/Metals

203,501

Jul 62

List 136

The Effect of Chromium, Molybdenum, Tungsten
and Vanadium on the Properties of 0.3% C Steels,
by K. Bungardt, ~~and~~ O. Mulders, G. Lennartz.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXII, Dec 1961, pp 823-841.

BISI 2677

Sci - Min/Metals

211, 281

Sep 62

Contribution to the Determination of Austenitic
Grain Size by Means of Oxidation Tests, by
D. Schreiber, S. Nannenoh.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXII,
Dec 1961, pp 857-861.

BIBI 2762

Sci - Chem

204, 769

Jul 62

list 139

The Segregating Action of Manganese on
Alloys of the Iron-Nickel-Sulphur
System, by R. Vogel, R. Gerhardt.
GERMAN, per. Arch Eisenh. Vol 32,
Dec 1961, pp 879-882.
BISI 4403

Sci/MQM
Oct 65

290,489

Mathematical Statistics for Use in Iron and
Steel Works, by H. Knuppel, A. Stumpf.

GERMAN, per, Archiv Eisenhüttenwesen, 2 Part II,
Vol XXXII, Dec 1961, pp 883-892.

BISI 2809

Sci - M/M
Jul 63

235,366

The Application of X-Ray Fluorescence Analysis to the
Examination of Various Ferro-Alloys, by J. Bruch.

GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIII,
Jan 1962, pp 5-15.

BISI 2912

Sci - Phys

Oct 62

212,279

List 150

X-Ray Fluorescence Spectrometric Determination of Tantalum and Columbium and Some Companion Elements in Tantalum and Columbium-Containing Materials, by H. Rothman, et al.

ENGELSMAN, per, Archiv Eisenhüttenwesen,
Vol XXXIII, No 1, 1962, pp 17-22.

HB 5558

Sci - Min/Met
May 62

196,294

Determination of the Solubility of Carbon in Iron
Titanium Alloys by Means of Damping Measurements,
by W. Koster, J. Haber.

GERMAN, per, Archiv fuer Eisenhüttenwesen,
Vol XXXIII, Jan 1962, pp 23-26.

BISI 2805

Sci - Chem

204.772

Jul 62

list 139

Foreword, by K. Richard. The Long-Time Behaviour
of High Temperature Steels. I, by P. Bettzische.

GERMAN, per, Archiv & fuer Eisenhüttenwesen,
Vol XXXIII, Jan 1962, pp 27-34.

ISI 2873

Sci - Chem

Aug 62

list 144

211, 198

The Long-Time Behaviour of High Temperature
Steels. II, by H. Fabritius.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, Jan 1962, pp 35-47.

RISI 2874

Sci - Chem

211, 199

Aug 62

List 14⁷

The Long-Time Behaviour of High Temperature Steels.
III, by A. von den Steinen.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, Jan 1962, pp 49-60.

BISI 2875

Sci - Chem

Aug 62

211, 192

list 146

Mathematical Statistics in Iron and Steelmaking
Plants, II - Planning and Evaluation of Trails
and Operating Records, by H. Knuppel,
A. Stumpf.

GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, No 1, 1962, pp 67-76.

BISI 3324

Sci - M/M
Nov 63

241,658

ON THE BEHAVIOUR OF COPPER, PHOSPHORUS AND ARSENIC
IN THE ELECTROLYTIC DECOMPOSITION OF IRON ALLOYS,
BY W. KOCH.

GERMAN, PER, ARCHIV EISENHUTTENWESEN, VOL XXXIII,
NO 2, 1962, PP 85-89.

HB 5562

SLA 62-2257

SCI - MIN/MET
AUG 62

206,991

TESTING A HYDROCHLORIC ACID-GLYCOL ELECTROLYTE FOR
RESIDUAL ISOLATION OF CHEMICALLY RESISTANT STEELS, BY
A. BAUMEL, W. THOMISCH.

GERMAN, PER, ARCHIV FUER EISENHUTTENWESEN,
VOL XXXIII, FEB 1962, PP 91-100.

BISI 2850

SCI - CHEM
OCT 62
LIST 154

214,805

CONTRIBUTION TO X-RAY FLUORESCENCE ANALYSIS OF
ALLOY STEELS, BY H. DE LAFFOLIE.

GERMAN, PER, ARCHIV EISENHUTTENWESEN, VOL XXXIII,
NO 2, 1962, PP 101-106.

HB 5563

SCI - MIN/MET
AUG 62

JLA 62-22237

CRL/T. 1166

206,990

The Evaluation of Long-Time Rupture Tests, by
A. Hirs Kirsch.

GERMANY, per, Archiv fur das Eisenhüttenwesen,
Vol XXXII, 1962, pp 107-114.

BISI 2839

Sol - M/M
Feb 63

222,543

Investigations on Quench and Ageing of Steels
Containing Nitrogen by Measurement of Damping,
Coercive Field Strength and Reformation, by
M. Hacken, J. Rahmann.

GERMAN, par, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, Feb 1962, pp 131-140.

BISI 2806

Sci - Min/Metals

208, 756

Aug 62
list 145

Dissolution of Refractory Materials, by E. Forster,
O. Knacke.

GERMAN, per, Archiv fuer Eisenhuttewesen,
Vol LIII, No 3, 1962, pp 141-143.

HB 5627

Sci - Chem

204,762

Jul 62

EXPERIENCES WITH VACUUM SPECTROMETERS IN THE
STEELWORKS LABORATORY, PART I, II, BY S. ECKHARD,
G. GRAUE, R. MAROTZ.

GERMAN, PER, ARCHIV FUER EISENHUTTENWESEN,
VOL XXXIII, NO 3, 1962, PP 145-150,
151-156.

BISI 2935
CRL/T. 1169

SCI - PHYS

OCT 62

LIST 153

214,817